

Brazil 79

Barna

TU2/539#

DART

P357359

\$.33 H

memo book

30 sheets

6 in. x 4 in.

no. 490



Stuart Hall co., inc. KANSAS CITY, MISSOURI 64108

S.W. of Belmonte a 1894
nest on white sand dunes
30 m. (Alimnia) -
grants

Mun. Belnate - 31 km S.W. of Belnate and 84^{km}
east of Itapeti, low forest on white sand slope
above creek, ~~the~~ elevat. 30 m. (Alvimia)
gracilis -

above Itapeti - 9568 -

Cepoc. 9617, 6 } 61.5

9629, 5

22.5

sub Belnate 9679, 1

652.84

Meritady. 9705. 710

Alvimia tract. 9710, 4 { 81.8

BR 101. 9792.2

Belate BR 101 = 113 km -

2489
Ansonville - 419.

427.8

419

(08.8 km) from

Br 101.

K - W 796

2015 to Oliveira

Alma 815

Agassiz 833.2

to A
to Rio Verde
by day the river -

Boat up to 3.5m
diam -

± up to 20m high -

Mendocino -
± up to 15 mm.
dia. up to 2.25

870,9

Mina 890,1

Chase (870,9)

Solito - 841,3

Alpaca e Uno & Circo
H. A. Aschete -
9208 fm.

9210.3
213.

9231.7. volio fo

9235.2 1 Faye 10.

9243,6 *A. angustica*

note

9245.9. note the.

263.3

17.4 + todens

9290.8 ^{minutely} - photo x mark
any choice
reverts to the

range

2476 ¹⁰ mine a bolita - Albic tenuis new leafy - ?

2477 ~~Other radiata~~ " " K. 18-20

2478 ~~A. tenuis seedling~~

2479 ~~A. gracilis~~

2476 ^{10/12} ~~Sanctus - fls~~

2477 ^{10/12} ~~Merostachys in fls~~

2478 ^{10/12} ~~Albic new leaf~~

2479 ^{10/12} ~~A. radiata same Coral~~ 9

2480 ^{10/12} ~~A. tenuis seedling~~

2481 ^{10/12} ~~A. tenuis floris~~ "

2482 ^{10/12} ~~A. gracilis~~ "

2483 ^{10/12} ~~Anacanthus ovulatus~~

2484 ^{10/12} ~~A. radiata~~

2485 ^{10/12} ~~A. asynethica~~

2486 ^{10/12} ~~Melothra Panianella~~ ²⁴⁸⁷ (Reena la CEMAC -
tenor, Maia -

2487 ~~Merostachys in fls~~

2488 ~~Anomochloa in fls~~

2489 ~~Merostachys in fls~~

2490 ~~Weyers con~~

2491

Brasil 1979

Bahia 79

2476

Feb. 22/79

Blanket of -
(same as new one for Aug. 9/1976)
Bo, Kan. Iken, strada Oli-
verge - Vile Brasil, 30 Km
E SW of Oliveira. (Paranda
de pizante Spruings & Santa El
na Maron, few used to el.)

Growing near the edge of
~~the~~ forest on medium
lumps. Culms short, up
to 3.5m in diam and
about 20cm high, to
lean on trees. Nodes
near the base to 2m
with strong, broken
some curved & and
long, ca. 6-7cm -
Mid culm nodes with

dry trap secured to the
H. sp. - but in middle
and neck without photo
Ad with long black shag
on top of head.

Red in flowers, dry pretty
fat pseudospinulatus
common in the up
where is called "gambusia"
growing to the next to it
A. stricklandi the cardinal
also seen in several
places mostly part and
dry but in the valley
not abundant but some
Few pictures with roll
#1 Kodak - not good
lighty rain
In some areas also
growing and collected

a Meristachys in flower
FAA: Dry large a small
upheld a leaf. (2:33)
(gambusia ~~sp. stricklandi~~
Stem -
Boragin? (re))

2477

Newbury.
Be. M. Illen - same loc as 2476

Most plants flowering,
were already by last
part.

Beautiful fl. M. with
strong chlorophyllous, not
double or culms about
17, 3-merous a up to
± 15 ^{cm} up - hanging from
trees - growing in the grass.
(from M. & A. District.
Cardinalis - Not too
far from no. 14000

This is a ± disturbed
part of sandy soil
in scrubby region
very humid, very rainy.

2nd. I found a loose
particulars - culms plus
first photographs? not
Kodakware

also. This one is very
orbulate and has a
very to like the by the
way, we saw the bag
to stop on the lower
parts of the legs -
P.H.B.

2479

Atractantha radiata

~~The~~ ~~for~~ some local, 2, 2, 2, 2
growing in part of cut
part of white sand soil
in a small patch with
a bunch of *Claytonia*
of the same in
the type of edge yield.
Atract. still green some
in fl. very old part
but many with young
and many with
long petioles and
only in one or two
places. Beautiful beech
leaves with long venation
fig. as in other.

Collected for *Stenocranus*
only
To get some photographs

2480

2,500 km from last
Shinnie - (0)

10th none 969.0 -
1st Olive to 18.3

Shinnie type lowy for
mud, 971.500 olive
a Olive 15.9. 16 km
from Olive

200 m from
Shinnie underphyle (15.700.0)
971.700

Deposited 987.4

711.7
15.7

2480 - *tennis*
Alnus. ~~frax~~ seedlings

2481 - " *frax* -

2482 - *frax* seedlings -
~~2483~~

Silene - *frax* - *frax*

32911.50 } *frax* 3 km

32994.20 } *frax* 3 km

39003.8005 } *frax* 3 km

39019 - *frax* 3 km

Heredia 3.3 km - *frax* 3 km

frax 3 km

frax 3 km

frax 3 km

9020, 3 - *frax* 3 km

frax 3 km

frax 3 km

9022 - *frax* 3 km

42.5 km from Obispo

9026 - *frax* 3 km

frax 3 km

frax 3 km

frax 3 km

frax 3 km

frax 3 km

9032 - 8 km

9043, 7. Lake with pencil
do. Pencil -
side to Pencil & Orange
— wings

side to Pencil - Orange
9132, 4

side to Orange - New
9149, 7.

233

24.3

New. Alm & Tennis
new collection from park
locality -

- A. Tennis red from
type local.

- A. Tennis red from
type local.

Alm

A. Tennis red new
locality 2483

Atractant over note
2484

Young to canal

2488 *Astr. radiata*

Type locality and for

300? on south

F.A.A. : \geq very numerous

with very young fl. a

others with young bipinnate

1 with tall & the young

inf with pinnate

and other young inf. & pinnate

of it.

1 black-white in the tips of

proliferations

1 *Boug.* young inf.

1 3:1 " "

total 6 rats - and

not pinnate -

F.A.A. : for 19020 with E.H. 200

roll # 2 + 1/2 + roll # 4

Black W. for 19020 roll 3 + 5

2480

Febr 23

Dr. H. Th. Ref. Oliveira -

with branch 16 km SW

of Oliveira (type locality)

Alouatta *terrestris*

seedlings

Young plant of about

one year or more

in fruit somewhat more?

beetle-like seedlings

look like these

leptophyllous. They

flourish in the stage of

growth, some about

50 cm or +, already

with the first branches

in a middle node

They still with

fruit attached, the 1st
root very thick.
They are very abundant
in place for a
cluster - looking
healthy and growing
well.

Notes taken: Dr W. with
B. & C. - all the
information made.
some more fruit?

Feb. 23

2481

H. macrophylla (Pursh)
var. *macrophylla* (Pursh)

Dr W. with - small Olive
var. *macrophylla*, 15th km
SW of Oliveira 15.900

In many places still
plant green and with
inflorescence. This is important
not so long as we
saw under, in the
pick of flowering. ^{last year}
Again in this path
several small, young
fruits seen.
Herbarium or per fruit
vitae?

Feb 23

2482

60, Man. Thru, to the road
Chiricahua Vile trail, 15.1 km

SW of Chiricahua

Plumonia ^{marginata} ~~marginata~~
seedling

type locality

Plant mostly dry
and pinkish but some
patches on one side
of the road. ^{very young} This one

flowers in the very young
developing fruit

seedlings are abundant

all over the forest and
plants look very large
Hard to believe at first

place that they are
seedlings, they look like
an Olive.

Some plant still with
bits out of fruit attached
and some already with
the fruit inside in the
branches.

Plumonia ~~marginata~~

Photo: b. w. and
color (photos 200) with
flash - (flash with camera
not working!)

200 m higher up on road
before *Plumonia* ~~marginata~~

These seedlings are about
1 year old or a few months
old.

Sebola, Feb 27

→ 483

Alouatta palliata
(red howler)

150. Nam. Ficus, *etc.*
 Oliveira, Vile Mont and
 then several *Sapocarpum*
-bursifolium from Siles-
 to the intersection point
 17, 3 km SW and then
 8 (and the new site 10 km)
 right and several -

Red plants dry as almost
few spots with green
leaves but lots of
mosses. They look beau-
tiful in ~~the~~ ^{the} wood
stage, but not too
small, plant probably
finishes long time

240, same time as
 the type locality.
 Beautiful bright green
 leaves, about same
 shape as the mother
 plant, many with
 first node with
 bracteoles. Very few
 already trying to climb
 good specimens.
 Photo in S & W & C.

We saw 2 locations
with B. parks, and
in the one 2 km above
was going in the A. tree
house. Good place.
Saw 2 birds, plenty of
new plants.

Ca.

Ba - Mun. de Ilheus, Rd
Oliveira - Vale Brasil, 17.3 Km
SW of Oliveira and then
31.2 Km to the right, on side
road Sapucaia - Cururupe
date Feb. 24 2484

Atractantha ovulata

Growing at the edge of
secondary, ~~forest~~ partially cut
forest along the road.
Climbing and sending
out new shoots and
covering densely the vegeta-
tion.

New shoots arching and
climbing on vegetation for a
while. The climbing -
Plant with no flowers -
Beautiful spot of *ovulata* -

Gulley - soil!

FAA:

herbaceous -

Feb. 25

2485

(Gomphos & carnaral)

Atractantha radiata Willd.

Bahia, Mun. & dist. estrada

Mun. - Oliveira, 28 km N of

Mun. passing the Heroin.

Local forest or a flat point

on white sand soil, near

a sand dune. This is the

same site I collected and

discovered in 1976. The origi-

nal population is now prac-

tically dead, dry, still with

dry inflorescences but not green.

After careful exploring the

area we found a few

seedlings, presumably from

seeds of *A. radiata*, growing

under the plants. They look
pretty sunburnt but
very small ~~fls~~. to be 100%
sure. I took photographs
but he not collected.

About 300 m or so beyond
this site, going south,
there is passing the ^{top of the} road
where there is another spot
of *A. radiata* very full
and flowering. I think
them in 1976 this plant
was not blooming and
probably started a little
later than the rest of *A. radiata*.

Almost every inflorescence
was ~~very~~ profligate,
producing vegetative axes
like rays coming out

of the basal ball inflorescence.
Each ray ends in one
or two or more? spikelets.
There are very heavy and
they hang down from tips
of branches. They look
very pretty.

FAA: 2 very wide mouth nals
with very young infloresc. and
other with ~~very~~ young big infloresc.
and in other nals young nals
with proliferations of part of
this proliferations.

1 nial with tips of proliferated
axis.

1 Bouquet - young sp. al
13:1

(Total 6 nals - not bulking collected
Photos, from 19. or 20 also

Enter 200 roll # 2 and leaf
or more of roll # 4
Blauit from 1920 to roll # 3
and roll # 5.

Feb 26

2486

Crisiumma asymmetrica, new form
or *Crisiumma*

Daba, Mun. de Una - ~~Chilivaca~~
Road Una - Oliruca 12 Km
N. of Una city, fazenda of Mr
Lloris de Matos Paris.

Alt. 75 m. s. m.

Very abundant, dominant
plant in coastal forest of
white sand soil. The samaras
were collected very completely
in 1976, ~~about 48~~. Climbing samaras
with very hard, solid culms ^{10m}
curved and crowding or
ascendant and leaning
on vegetation and then
climbing to the top of
trees and hanging from

top. About 15-20 cm high.
Part of the ~~original~~ original
plant has been cut down,
all along the entrance
and on both sides of
the road the way about
white pines.

In one place near the
intersection in the
stream one plant was
in flower.

The inflorescences (pseudospike-
lets? or so) extremely long
some 20 cm long or ~~more~~ more.

The spikelets dry and looking
like infected by disease.
Later we found a few other
plants flowering farther down
but all ~~the~~ dry.

They look like the type
of pseudospikelets of
Baccharis but enormous.

The best looking of the pseudo-
spikelets were fixed in FAA
then. The long pseudospikelets
blake very in pieces.

Rd. Mun. to Una. Road
Una - Oliveira, CEPAC
Reserva "Lemos Maia".
Pennisetella.

Growing in wet forest
on white sand soil.
Common in forest mixed
with bamboo, *Merstachys*
in bloom and also
Crinum (no flowers yet).

Feb. 27, 1979. Col. # 2487

Feb. 27.

2488

Merostachys (in fls)

B2. Mun. & Una. Road
Una - Olivença, CEARA's
reserva forestal "Lemos Maia".
(ca. 7 km from Una?)

This "reserva" is very important
of the area I collected in 1972.
I think is about 5 km or so
from Una. Here I collected
in 1972 the *Merostachys*.

Asymmetrical, for the first
time and one or 2 *Merostachys*
clumps - one of which is now
blooming and showing the cardinal
red in ripe *Merostachys*,
with the rather thin, asperous
culms and short leaves.
Collected a lot of

mauve, with fls. in
and also sterile parts
to buds and nodes
with bracts -

Feb. 28

2489

Anomochloa

same loc. as 1976 -

± 8.8 km from BR 101 - on
Road São José de Macuco -
Alma - São José de Macuco

Few plants found flowering,
There were as before very
high up the hill side on
dark, humid forest.

Were photographed and
later dried in FAA, few
specimens collected for
herbarium.

March 3, 1979

2490

Mevotachy sp. (in bloom)

Mun. de Belmonte, ²⁶~~31~~ Km

SW of Belmonte and 87 Km
E of Itapebi

Very first on white sand-
stone slopes, rocky areas.

Elevat. 30 m -

Low ^{tree} forest on white sand
soil.

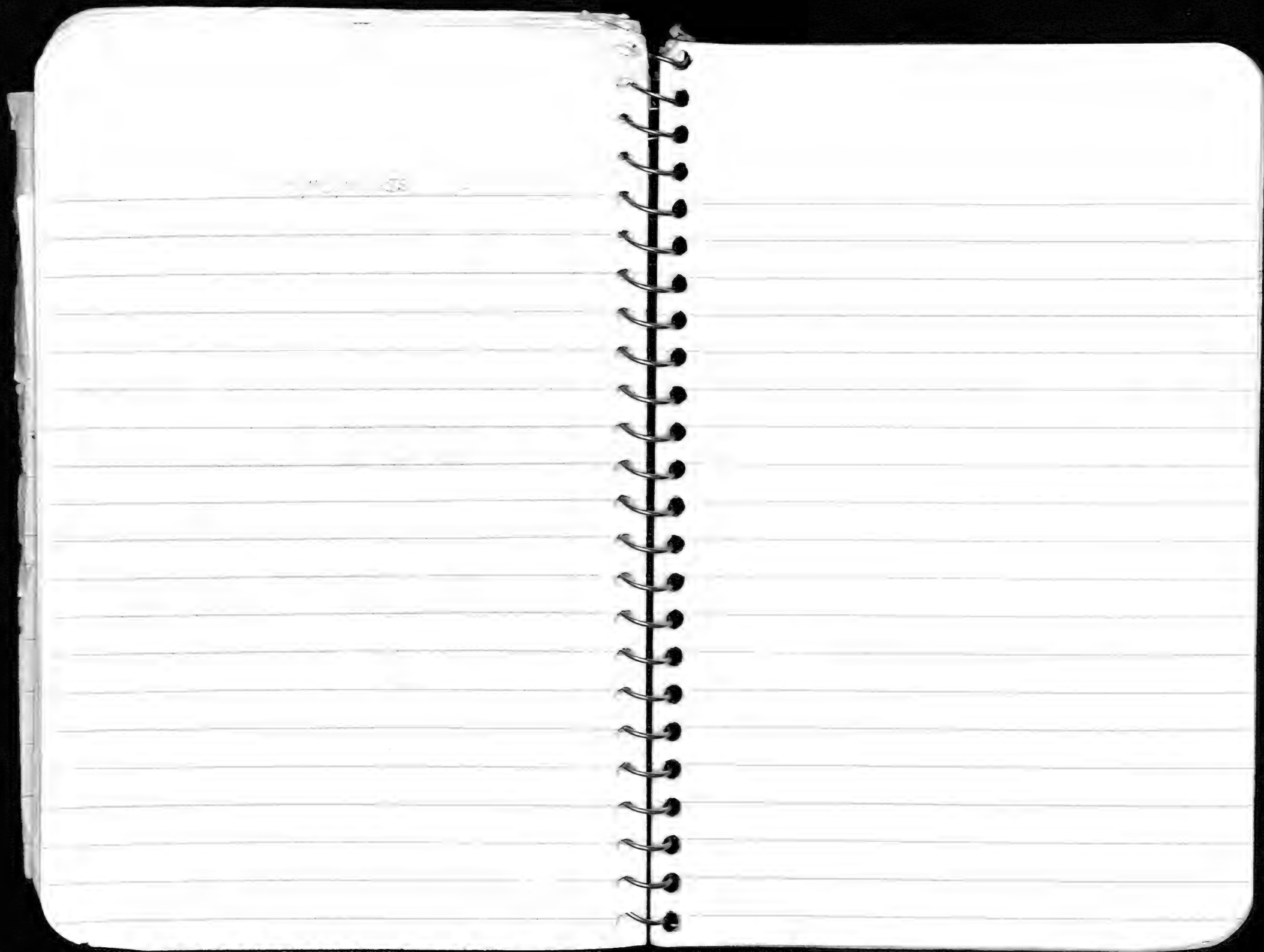
Most of the population
already dry, dry and
only the tips of branches
still green with inflores-
ces, the new shoot can

Alnus ~~*glabra*~~ ^{*incana*} & *Fraxinus*
robusta seen in

Belmonte, Mex., 31 Km SW
of Belmonte road 84 Km
E of Tapachi.

Alt. 4.3m 30m

Low tree type of forest on white
hard soil, steep slopes
above creek. Full of
seedlings of *Alnus*.





agm

Gafanhoto

GAFANHOTO = lamposta
rotunda.

Hotel Fontane en
Oliveira de
Dona Joaquina

side the - line - prob.

9302.9 -

